

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/811,045A

DATE: 06/29/2001

TIME: 12:17:00

Input Set : A:\D6386D\_SEQ.txt

Output Set: N:\CRF3\06292001\I811045A.raw

ENTERED

2 <110> APPLICANT: Scott, Robert E.  
4 <120> TITLE OF INVENTION: cDNA encoding P2P proteins and use of P2P cDNA-  
5 derived antibodies and antisense reagents  
6 in determining the proliferative potential of  
7 normal, abnormal and cancer cells in animals  
8 and humans  
10 <130> FILE REFERENCE: D6386D  
12 <140> CURRENT APPLICATION NUMBER: US 09/811,045A  
13 <141> CURRENT FILING DATE: 2001-03-16  
14 <150> PRIOR APPLICATION NUMBER: US 08/801,308  
15 <151> PRIOR FILING DATE: 1997-02-18  
17 <160> NUMBER OF SEQ ID NOS: 4  
19 <210> SEQ ID NO: 1  
20 <211> LENGTH: 1404  
21 <212> TYPE: PRT  
22 <213> ORGANISM: Unknown  
24 <220> FEATURE:  
26 <221> NAME/KEY: PEPTIDE  
27 <223> OTHER INFORMATION: P2P polypeptide  
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32 Asn Thr Gly Lys Tyr Ala Ile Pro Thr Ile Asp Ala Glu Ala Tyr  
33 20 25 30  
34 Ala Ile Gly Lys Lys Glu Lys Pro Pro Phe Leu Pro Glu Glu Pro  
35 35 40 45  
36 Ser Ser Ser Ser Glu Glu Asp Asp Pro Ile Pro Ala Glu Leu Leu  
37 50 55 60  
38 Cys Leu Ile Cys Lys Asp Ile Met Thr Asp Ala Val Val Ile Pro  
39 65 70 75  
40 Cys Cys Gly Asn Ser Ser Cys Asp Glu Cys Ile Arg Thr Thr Leu  
41 80 85 90  
42 Leu Glu Ser Asp Lys His Thr Cys Pro Thr Cys His Gln Asn Asp  
43 95 100 105  
44 Val Ser Pro Asp Ala Leu Ile Ala Asn Lys Phe Leu Arg Gln Ala  
45 110 115 120  
46 Val Asn Asn Phe Lys Asn Glu Thr Gly Tyr Thr Lys Arg Leu Arg  
47 125 130 135  
48 Lys Gln Leu Pro Pro Phe Leu Phe Leu Val Pro Pro Pro Arg Pro  
49 140 145 150  
50 Leu Ser Gln Arg Asn Leu Gln Pro Arg Ser Arg Ser Pro Ile Leu  
51 155 160 165  
52 Arg Gln Gln Asp Pro Val Val Phe Arg Tyr Thr Val Ser Pro Thr  
53 170 175 180  
54 Cys Ser Asp Thr Lys Thr Ala Gly Ser Cys Ser Asp Ser Gly Thr  
55 185 190 195  
56 Leu Ser Arg Leu Pro Ala Pro Ser Ile Ser Ser Leu Thr Ser Asn

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| 58  | Gln Ser Ser Leu | Ala Pro Pro Val Ser | Gly Asn Pro Ser Ser | Ala |  |     |
| 59  |                 | 215                 |                     | 220 |  | 225 |
| 60  | Pro Ala Pro Val | Pro Asp Ile Thr Ala | Thr Val Ser Ile Ser | Val |  |     |
| 61  |                 | 230                 |                     | 235 |  | 240 |
| 62  | His Ser Glu Lys | Ser Asp Gly Pro Phe | Arg Asp Ser Asp Asn | Lys |  |     |
| 63  |                 | 245                 |                     | 250 |  | 255 |
| 64  | Leu Leu Pro Ala | Ala Ala Leu Thr Ser | Glu His Ser Lys Gly | Ala |  |     |
| 65  |                 | 260                 |                     | 265 |  | 270 |
| 66  | Ser Ser Ile Ala | Ile Thr Ala Leu Met | Glu Glu Lys Gly Val | Pro |  |     |
| 67  |                 | 275                 |                     | 280 |  | 285 |
| 68  | Gly Thr Ser Pro | Trp Asn Ser Ile Phe | Val Gly Gln Ser Leu | Leu |  |     |
| 69  |                 | 290                 |                     | 295 |  | 300 |
| 70  | His Gly Gln Leu | Ile Pro Thr Thr Gly | Pro Val Arg Ile Asn | Ala |  |     |
| 71  |                 | 305                 |                     | 310 |  | 315 |
| 72  | Ala Arg Pro Gly | Gly Gly Arg Pro Gly | Trp Glu His Ser Asn | Lys |  |     |
| 73  |                 | 320                 |                     | 325 |  | 330 |
| 74  | Leu Gly Tyr Leu | Val Ser Pro Pro Gln | Gln Ile Arg Arg Gly | Glu |  |     |
| 75  |                 | 335                 |                     | 340 |  | 345 |
| 76  | Arg Ser Cys Tyr | Arg Ser Ile Asn Arg | Gly Arg His His Ser | Glu |  |     |
| 77  |                 | 350                 |                     | 355 |  | 360 |
| 78  | Arg Ser Gln Arg | Thr Gln Ser Pro Ser | Leu Pro Ala Thr Pro | Cys |  |     |
| 79  |                 | 365                 |                     | 370 |  | 375 |
| 80  | Phe Val Pro Val | Pro Pro Pro Pro Leu | Tyr Pro Pro Pro Pro | His |  |     |
| 81  |                 | 380                 |                     | 385 |  | 390 |
| 82  | Thr Leu Pro Leu | Pro Pro Gly Val Pro | Pro Pro Gln Phe Ser | Pro |  |     |
| 83  |                 | 395                 |                     | 400 |  | 405 |
| 84  | Gln Phe Pro Ser | Ser Gln Pro Pro Thr | Ala Gly Tyr Ser Val | Pro |  |     |
| 85  |                 | 410                 |                     | 415 |  | 420 |
| 86  | Pro Pro Gly Phe | Pro Pro Ala Pro Ala | Asn Ile Ser Thr Ala | Cys |  |     |
| 87  |                 | 425                 |                     | 430 |  | 435 |
| 88  | Phe Ser Pro Gly | Val Pro Thr Ala His | Ser Asn Thr Met Pro | Thr |  |     |
| 89  |                 | 440                 |                     | 445 |  | 450 |
| 90  | Thr Gln Ala Pro | Leu Leu Ser Arg Glu | Glu Phe Tyr Arg Glu | Gln |  |     |
| 91  |                 | 455                 |                     | 460 |  | 465 |
| 92  | Asn Asp Lys Gly | Arg Glu Ser Lys Phe | Pro Tyr Ser Gly Ser | Ser |  |     |
| 93  |                 | 470                 |                     | 475 |  | 480 |
| 94  | Tyr Ser Arg Ser | Ser Tyr Thr Asp Ser | Ser Gln Gly Leu Ala | Gln |  |     |
| 95  |                 | 485                 |                     | 490 |  | 495 |
| 96  | His Ile His Ala | Leu Thr Leu Ser Pro | Ser Ala Ala His Thr | Leu |  |     |
| 97  |                 | 500                 |                     | 505 |  | 510 |
| 98  | Asp Leu Leu His | Asp His Pro His Pro | Pro Glu Glu Ala Glu | Ala |  |     |
| 99  |                 | 515                 |                     | 520 |  | 525 |
| 100 | Arg Ser Ala Met | Ile Val His Met Pro | Asp Leu Met Asp Ile | Ala |  |     |
| 101 |                 | 530                 |                     | 535 |  | 540 |
| 102 | His Ala Arg Ser | Arg Ser Pro Pro Tyr | Arg Arg Tyr Arg Ser | Arg |  |     |
| 103 |                 | 545                 |                     | 550 |  | 555 |
| 104 | Ser Arg Ser Pro | Pro Glu Phe Arg Gly | Gln Ser Pro Thr Lys | Arg |  |     |
| 105 |                 | 560                 |                     | 565 |  | 570 |

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| 106 | Asn | Val | Pro | Arg | Glu | Glu | Lys | Glu | Arg | Glu | Tyr | Phe | Asn | Arg | Tyr |
| 107 |     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| 108 | Arg | Glu | Val | Pro | Pro | Pro | Tyr | Asp | Ile | Lys | Ala | Tyr | Tyr | Gly | Arg |
| 109 |     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| 110 | Ser | Val | Asp | Phe | Arg | Asp | Pro | Phe | Glu | Lys | Glu | Arg | Tyr | Arg | Glu |
| 111 |     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| 112 | Trp | Glu | Arg | Lys | Tyr | Arg | Glu | Trp | Tyr | Glu | Lys | Tyr | Tyr | Lys | Gly |
| 113 |     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| 114 | Tyr | Ala | Val | Gly | Ala | Gln | Pro | Arg | Pro | Ser | Ala | Asn | Arg | Glu | Asp |
| 115 |     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| 116 | Phe | Ser | Pro | Glu | Arg | Leu | Leu | Pro | Leu | Asn | Ile | Arg | Asn | Ser | Pro |
| 117 |     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| 118 | Phe | Thr | Arg | Gly | Arg | Arg | Glu | Asp | Tyr | Ala | Ala | Gly | Gln | Ser | His |
| 119 |     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |
| 120 | Arg | Asn | Arg | Asn | Leu | Gly | Gly | Asn | Tyr | Pro | Glu | Lys | Leu | Ser | Thr |
| 121 |     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |
| 122 | Arg | Asp | Ser | His | Asn | Ala | Lys | Asp | Asn | Pro | Lys | Ser | Lys | Glu | Lys |
| 123 |     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |
| 124 | Glu | Ser | Glu | Asn | Val | Pro | Gly | Asp | Gly | Lys | Gly | Asn | Lys | His | Lys |
| 125 |     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |
| 126 | Lys | His | Arg | Lys | Arg | Arg | Asn | Glu | Glu | Lys | Gly | Glu | Glu | Ser | Glu |
| 127 |     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735 |
| 128 | Ser | Phe | Leu | Asn | Pro | Glu | Leu | Leu | Glu | Thr | Ser | Arg | Lys | Cys | Arg |
| 129 |     |     |     |     | 740 |     |     |     |     | 745 |     |     |     |     | 750 |
| 130 | Gly | Ser | Ser | Gly | Ile | Asp | Glu | Thr | Lys | Thr | Asp | Thr | Leu | Phe | Val |
| 131 |     |     |     |     | 755 |     |     |     |     | 760 |     |     |     |     | 765 |
| 132 | Leu | Pro | Ser | Arg | Asp | Asp | Ala | Thr | Pro | Val | Arg | Asp | Glu | Pro | Met |
| 133 |     |     |     |     | 770 |     |     |     |     | 775 |     |     |     |     | 780 |
| 134 | Asp | Ala | Glu | Ser | Ile | Thr | Phe | Lys | Ser | Val | Ser | Asp | Lys | Asp | Lys |
| 135 |     |     |     |     | 785 |     |     |     |     | 790 |     |     |     |     | 795 |
| 136 | Arg | Glu | Lys | Asp | Lys | Pro | Lys | Val | Lys | Ser | Asp | Lys | Thr | Lys | Arg |
| 137 |     |     |     |     | 800 |     |     |     |     | 805 |     |     |     |     | 810 |
| 138 | Lys | Ser | Asp | Gly | Ser | Ala | Thr | Ala | Lys | Lys | Asp | Asn | Val | Leu | Lys |
| 139 |     |     |     |     | 815 |     |     |     |     | 820 |     |     |     |     | 825 |
| 140 | Pro | Ser | Lys | Gly | Pro | Gln | Glu | Lys | Val | Asp | Gly | Asp | Arg | Glu | Lys |
| 141 |     |     |     |     | 830 |     |     |     |     | 835 |     |     |     |     | 840 |
| 142 | Ser | Pro | Arg | Ser | Glu | Pro | Pro | Leu | Lys | Lys | Ala | Lys | Glu | Glu | Ala |
| 143 |     |     |     |     | 845 |     |     |     |     | 850 |     |     |     |     | 855 |
| 144 | Thr | Lys | Ile | Asp | Ser | Val | Lys | Pro | Ser | Ser | Ser | Ser | Gln | Lys | Asp |
| 145 |     |     |     |     | 860 |     |     |     |     | 865 |     |     |     |     | 870 |
| 146 | Glu | Lys | Val | Thr | Gly | Thr | Pro | Arg | Lys | Ala | His | Ser | Lys | Ser | Ala |
| 147 |     |     |     |     | 875 |     |     |     |     | 880 |     |     |     |     | 885 |
| 148 | Lys | Asp | Thr | Arg | Arg | Gln | Ser | Gln | Pro | Arg | Thr | Arg | Arg | Ser | Lys |
| 149 |     |     |     |     | 890 |     |     |     |     | 895 |     |     |     |     | 900 |
| 150 | Arg | Thr | Val | Pro | Lys | Thr | Ser | Ser | Gln | Lys | Ser | Gln | Pro | Val | Arg |
| 151 |     |     |     |     | 905 |     |     |     |     | 910 |     |     |     |     | 915 |
| 152 | Thr | Arg | Arg | Pro | Arg | Ser | Leu | Arg | Lys | Ile | Asn | Tyr | Leu | Ile | Ala |
| 153 |     |     |     |     | 920 |     |     |     |     | 925 |     |     |     |     | 930 |
| 154 | Arg | Glu | Lys | Asn | Glu | Arg | Glu | Lys | Arg | Lys | Lys | Ser | Val | Asp | Lys |

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| 155 |     |     |     |     | 935  |     |     |     |     | 940  |     |     |     |     | 945  |
| 156 | Asp | Phe | Glu | Ser | Ser  | Ser | Met | Lys | Ile | Ser  | Lys | Val | Glu | Gly | Thr  |
| 157 |     |     |     |     | 950  |     |     |     |     | 955  |     |     |     |     | 960  |
| 158 | Glu | Ile | Val | Lys | Pro  | Ser | Pro | Lys | Arg | Lys  | Met | Glu | Gly | Asp | Val  |
| 159 |     |     |     |     | 965  |     |     |     |     | 970  |     |     |     |     | 975  |
| 160 | Glu | Lys | Leu | Glu | Arg  | Thr | Pro | Glu | Lys | Asp  | Lys | Ile | Ala | Ser | Ser  |
| 161 |     |     |     |     | 980  |     |     |     |     | 985  |     |     |     |     | 990  |
| 162 | Thr | Thr | Pro | Ala | Lys  | Lys | Ile | Lys | Leu | Asn  | Arg | Glu | Thr | Gly | Lys  |
| 163 |     |     |     |     | 995  |     |     |     |     | 1000 |     |     |     |     | 1005 |
| 164 | Lys | Ile | Gly | Asn | Ala  | Glu | Asn | Ala | Ser | Thr  | Thr | Lys | Glu | Pro | Ser  |
| 165 |     |     |     |     | 1010 |     |     |     |     | 1015 |     |     |     |     | 1020 |
| 166 | Glu | Lys | Leu | Glu | Ser  | Thr | Ser | Ser | Lys | Ile  | Lys | Gln | Glu | Lys | Val  |
| 167 |     |     |     |     | 1025 |     |     |     |     | 1030 |     |     |     |     | 1035 |
| 168 | Lys | Gly | Lys | Ala | Lys  | Arg | Lys | Val | Ala | Gly  | Ser | Glu | Gly | Ser | Ser  |
| 169 |     |     |     |     | 1040 |     |     |     |     | 1045 |     |     |     |     | 1050 |
| 170 | Ser | Thr | Leu | Val | Asp  | Tyr | Thr | Ser | Thr | Ser  | Ser | Thr | Gly | Gly | Ser  |
| 171 |     |     |     |     | 1055 |     |     |     |     | 1060 |     |     |     |     | 1065 |
| 172 | Pro | Val | Arg | Lys | Ser  | Glu | Glu | Lys | Thr | Asp  | Thr | Lys | Arg | Thr | Val  |
| 173 |     |     |     |     | 1070 |     |     |     |     | 1075 |     |     |     |     | 1080 |
| 174 | Ile | Lys | Thr | Met | Glu  | Glu | Tyr | Asn | Asn | Asp  | Asn | Thr | Ala | Pro | Ala  |
| 175 |     |     |     |     | 1085 |     |     |     |     | 1090 |     |     |     |     | 1095 |
| 176 | Glu | Asp | Val | Ile | Ile  | Met | Ile | Gln | Val | Pro  | Gln | Ser | Lys | Trp | Asp  |
| 177 |     |     |     |     | 1100 |     |     |     |     | 1105 |     |     |     |     | 1110 |
| 178 | Lys | Asp | Asp | Phe | Glu  | Ser | Glu | Glu | Glu | Asp  | Val | Lys | Thr | Thr | Gln  |
| 179 |     |     |     |     | 1115 |     |     |     |     | 1120 |     |     |     |     | 1125 |
| 180 | Pro | Ile | Gln | Ser | Val  | Gly | Lys | Pro | Ser | Ser  | Ile | Ile | Lys | Asn | Val  |
| 181 |     |     |     |     | 1130 |     |     |     |     | 1135 |     |     |     |     | 1140 |
| 182 | Thr | Thr | Lys | Pro | Ser  | Ala | Thr | Ala | Lys | Tyr  | Thr | Glu | Lys | Glu | Ser  |
| 183 |     |     |     |     | 1145 |     |     |     |     | 1150 |     |     |     |     | 1155 |
| 184 | Glu | Gln | Pro | Glu | Lys  | Leu | Gln | Lys | Leu | Pro  | Lys | Glu | Ala | Ser | His  |
| 185 |     |     |     |     | 1160 |     |     |     |     | 1165 |     |     |     |     | 1170 |
| 186 | Glu | Leu | Met | Gln | His  | Glu | Leu | Arg | Ser | Ser  | Lys | Gly | Ser | Ala | Ser  |
| 187 |     |     |     |     | 1175 |     |     |     |     | 1180 |     |     |     |     | 1185 |
| 188 | Ser | Glu | Lys | Gly | Arg  | Ala | Lys | Asp | Arg | Glu  | His | Ser | Gly | Ser | Glu  |
| 189 |     |     |     |     | 1190 |     |     |     |     | 1195 |     |     |     |     | 1200 |
| 190 | Lys | Asp | Asn | Pro | Asp  | Lys | Arg | Lys | Ser | Gly  | Ala | Gln | Pro | Asp | Lys  |
| 191 |     |     |     |     | 1205 |     |     |     |     | 1210 |     |     |     |     | 1215 |
| 192 | Glu | Ser | Thr | Val | Asp  | Arg | Leu | Ser | Glu | Gln  | Gly | His | Phe | Lys | Thr  |
| 193 |     |     |     |     | 1220 |     |     |     |     | 1225 |     |     |     |     | 1230 |
| 194 | Leu | Ser | Gln | Ser | Ser  | Lys | Glu | Thr | Arg | Thr  | Ser | Glu | Lys | His | Glu  |
| 195 |     |     |     |     | 1235 |     |     |     |     | 1240 |     |     |     |     | 1245 |
| 196 | Ser | Val | Arg | Gly | Ser  | Ser | Asn | Lys | Asp | Phe  | Thr | Pro | Gly | Arg | Asp  |
| 197 |     |     |     |     | 1250 |     |     |     |     | 1255 |     |     |     |     | 1260 |
| 198 | Lys | Lys | Val | Asp | Tyr  | Asp | Ser | Arg | Asp | Tyr  | Ser | Ser | Ser | Lys | Arg  |
| 199 |     |     |     |     | 1265 |     |     |     |     | 1270 |     |     |     |     | 1275 |
| 200 | Arg | Asp | Glu | Arg | Gly  | Glu | Leu | Ala | Arg | Arg  | Lys | Asp | Ser | Pro | Pro  |
| 201 |     |     |     |     | 1280 |     |     |     |     | 1285 |     |     |     |     | 1290 |
| 202 | Arg | Gly | Lys | Glu | Ser  | Leu | Ser | Gly | Gln | Lys  | Ser | Lys | Leu | Arg | Glu  |
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 208 Tyr Glu Thr Lys Arg Pro Cys Glu Glu Thr Lys Pro Val Asp Lys  
 209 1340 1345 1350  
 210 Asn Ser Gly Lys Glu Arg Glu Lys His Ala Ala Glu Ala Arg Asn  
 211 1355 1360 1365  
 212 Gly Lys Glu Ser Ser Gly Ala Asn Cys His Val Tyr Leu Thr Arg  
 213 1370 1375 1380  
 214 Gln Thr Leu Pro Trp Arg Arg Ser Trp Leu Leu Gly Arg Trp Arg  
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219 &lt;210&gt; SEQ ID NO: 2

220 &lt;211&gt; LENGTH: 5173

221 &lt;212&gt; TYPE: DNA

222 &lt;213&gt; ORGANISM: Unknown

224 &lt;220&gt; FEATURE:

W--&gt; 226 &lt;221&gt; NAME/KEY: cDNA

227 &lt;223&gt; OTHER INFORMATION: P2P cDNA

229 &lt;400&gt; SEQUENCE: 2

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 232 ggaattccta gaagttttat gatggaagtg aaagatccta acatgaaagg tgcaatgctt 180  
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 256 ccctatagtg ggtcatcgta ttcaagaagt tcatacactg actcaagtca aggtctgggt 1620

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